WHAT IS CLAIMED IS:

1. A microfluidic device comprising a substrate having a planar surface, a plurality of openings in said surface of microstructures and at least a portion of said openings surrounded by a collar in relief.

2. A microfluidic device according to Claim 1, wherein said collar has its inner surface aligned with the inner surface of said opening and a thickness of from about 0.05 to 0.5mm thick extending away from said inner surface.

3. A microfluidic device according to Claim 2 wherein said collar is covered with a lid of a conformable material.

4. A microfluidic device according to Claim 2, wherein said collar is covered with a lid with an adhesive coating.

5. A microfluidic device according to Claim 1 produced by plastic molding.

6. A microfluidic device comprising a substrate having a planar surface, a plurality of reservoirs having openings in said surface, said reservoirs having volumes in the range of about 10nl to 10µl and at least a portion of said openings surrounded by a collar in relief, having an inner surface aligned with the inner surface of said reservoir, said collar having a height in the range of about 0.1 to 1mm and thickness of from about 0.05 to 0.5mm thick extending away from said inner surface.

7. A microfluidic device according to Claim 6, where at least a portion of said reservoirs are connected to one or more other reservoirs by microchannels.

8. A microfluidic device according to Claim 6, wherein at least a portion of said reservoirs are positioned in accordance with a 96, 384 or 1536 microtiter well format.

9. A microfluidic device according to Claim 6, wherein said collar is covered with a lid.

10. A microfluidic device according to Claim 9, wherein each collar is covered with a lid, which lid is a portion of a continuous film.

11. A microfluidic device according to Claim 6, wherein said substrate comprises an acrylic polymer and is molded.

12. In a method employing a microfluidic device comprising introducing small volumes into microstructures, where the volumes comprise volatile solvents, the improvement which

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comprises:introducing said small volumes into a device according to Claim 1; and applying a compliant or adhesive lead to each of said collars.

13. A method according to Claim 12, wherein said lid is a portion of a continuous film.

14. A method according to Claim 12, wherein said microstructures are components of an electrokinetic device.

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